

LISTING OF CLAIMS:

Claims 1-2 canceled.

3. (currently amended) The A gear-reduction device of claim 1, wherein
for measuring and transmitting rotary and swivel movements, comprising a plurality of
wheel/pinion pairs, each wheel/pinion pair having a gear axle, a gear wheel and a
pinion gear, the gear wheel and the pinion gear being rigidly connected to the gear
axle; said gear-reduction device being adapted to be coupled to a rotary object that
moves in a plane of rotation and whose movement is to be measured within a
measuring range; and said gear-reduction device producing an output motion that is
reduced in relation to the movement of the rotary object, thereby expanding the
measuring range; wherein

10 the gear wheels of the different wheel/pinion pairs lie in different gear-
11 wheel planes, at least a part of the gear-wheel planes being parallel to each other and
12 inclined in relation to the plane of rotation of the rotary object;

13 the gear wheels of the different wheel/pinion pairs are of equal diameter:

14 the wheel/pinion pairs follow each other in a sequence where the pinion
15 gear of each wheel/pinion pair is engaged in the gear wheel of the next following
16 wheel/pinion pair;

17 the gear wheel of the first wheel/pinion pair in the sequence is an input
18 wheel, being positively engaged and driven by the rotary object;

19 the gear wheel of the last wheel/pinion pair in the sequence is an output
20 wheel, the pinion of the last wheel/pinion pair being adapted to positively engage and
21 drive an optical angle-measuring device adapted for rotary swivel motion in a swivel-

22 motion plane,
23 the gear-wheel plane of the input wheel is parallel to the plane of rotation of
24 the rotary object, and
25 the gear-wheel plane of the output wheel is parallel to the swivel-motion
26 plane of the optical angle-measuring device.

1 4. (currently amended) The gear-reduction device of claim 4 3, wherein all
2 gear-wheel planes are parallel to each other and inclined at an oblique angle in
3 relation to the plane of rotation of the rotary object.

1 5. (currently amended) The gear-reduction device of claim 4 3, wherein
2 the input wheel has an input shaft and is kinematically coupled to a driving unit, and
3 the output wheel has a central output shaft adapted to transmit movement to a driven
device.

1 6. (original) The gear-reduction device of claim 5, further comprising a
2 base plate, a cover plate, and a plurality of rotary bearings mounted in the base plate
3 and the cover plate, wherein at least the input shaft and the central output shaft run in
4 the rotary bearings and wherein further the gear-reduction device is adapted to be
5 flange-mounted on the driving unit and to form a unitary module with the driving unit.